

Milliken® Hyperform® HPN™

High Concentration Concentrates

Highly Loaded, Pre-dispersed
Hyperform Concentrates for Polyolefins

Hyperform® HPN™ High Concentration Concentrates (HCC) improve product consistency and simplify processing while retaining the benefits of powder additives.

Designed specifically for polyolefin resin producers, masterbatch producers and compounders, these pre-dispersed, high-concentration versions of existing powdered performance additives are meant to be let down as a component of the overall formulation. These three HCC products are each based on existing Hyperform technology:



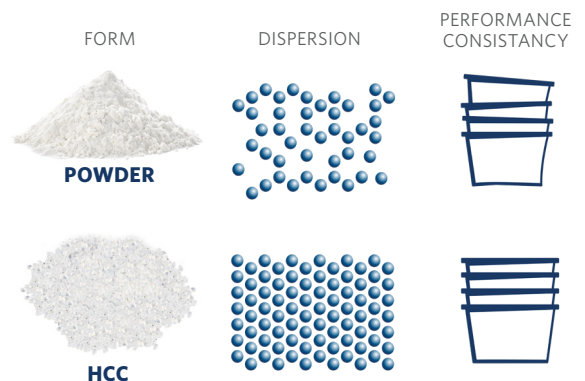
New HCC Product Range

- **Hyperform HPN GP 2204BB** (for PP and PE), based on Hyperform HPN-20E
- **Hyperform HPN GP 1205AI** (for PP), based Hyperform HPN-68L
- **Hyperform HPN GP 2204DI** (for PE), based Hyperform HPN-210M

Benefits Include

- Worry-free production
- Ease of processability
- More consistent product quality
- A simplified quality-control process
- A convenient, streamlined dosing process
- An end to messy, post-use machine cleanup

High Concentration Concentrates are pre-dispersed to provide excellent dispersion resulting in consistent product performance and part production.



Hyperform® HPN™ High Concentrate Concentrates



These products offer a range of enhancements to polypropylene (PP) and polyethylene (PE), to include better stiffness/impact balance, dimensional stability, shrinkage/warpage control, pigment leveling, barrier performance, and improved heat-deflection temperature. They have also been shown to speed output, boost processing productivity, reduce cycle time, enable downgauging, save material, and reduce waste.

With HCC, let Milliken do the hard work for you, and have greater confidence in the final masterbatch, compound, or resin that you sell to your customer.

New High Concentration Concentrate Products

HYPERFORM HPN POWDER DERIVATIVE	HCC PRODUCTS	Improved Stiffness/ Impact Balance	Shrinkage Reduction	Increased Shrinkage	Higher Productivity	Warpage Control	Barrier Enhancement	Clarity Enhancement
Hyperform HPN-20E	Hyperform HPN GP 2204BB for PP	■	■		■	■		■
Hyperform HPN-20E	Hyperform HPN GP 2204BB for PE		■		■		■	■
Hyperform HPN-68L	Hyperform HPN GP 1205AI for PP	■		■	■	■		■
Hyperform HPN-210M	Hyperform HPN GP 2204DI for PE IM*	■	■		■	■		

*FDA approved only

Milliken's Hyperform HPN performance additives have long helped customers to improve and tailor the performance of their polyolefin products.

Please contact your Milliken representative for any additional information.

PLEASE NOTE: As each customer's use of our product may be different, information we provide, including without limitation, recommendations, test results, samples, care/labeling/processing instructions or marketing advice, is provided in good faith but without warranty and without accepting any responsibility/liability. Each customer must test and be responsible for its own specific use, further processing, labeling, marketing, etc. All sales are exclusively subject to our standard terms of sale posted at www.milliken.com/terms (all additional/different terms are rejected) unless explicitly agreed otherwise in a signed writing.

NORTH AMERICA
Spartanburg, SC, USA
Tel: 800-910-5592
Fax: 864-503-2430
millichem@milliken.com

EUROPE
Gent, Belgium
Tel: 32-9-265-1100
Fax: 32-9-265-1195
eurochem@milliken.com

LATIN AMERICA
Sao Paulo, Brazil
Tel: 55-11-3043-7942
Fax: 55-11-3043-7096
lachem@milliken.com

LATIN AMERICA
Mexico City, Mexico
Tel: 52-55-3088 3600
Fax: 52-55-9000 2643
lachem@milliken.com

ASIA
Singapore
Tel: 65-6377-0770
Fax: 65-6377-0990
asiachem@milliken.com

ASIA
Shanghai
Tel: 86-21 6145-5555
Fax: 86-21 6145-5558
asiachem@milliken.com

ASIA
Pune, India
Tel: 91.20.6730.7501
Fax: 91.20.6730.7514
asiachem@milliken.com